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मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

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“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 5559 (1984): Oilers [PGD 19: Lubricating Equipments]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard
SPECIFICATION FOR OILERS
(*First Revision*)

1. Scope — Specifies the dimensions and other requirements for screw-in type and drive-fit type of oilers used for general purposes.

2. Types

Type A — Straight, screw-in-hinged lid oilers (self-closing, lid rotatable).

Type B — Angle, screw-in, hinged lid oilers (self-closing, lid rotatable).

Type C — Straight, drive-fit, hinged lid oilers (self-closing, lid rotatable).

Type D — Drive-fit, hinged lid oilers (self-closing).

Type E — Drive-fit ball oilers.

3. Dimensions

3.1 Oilers Type A and B — Shall be as given in Table 1 read with Fig. 1.

3.2 Oilers — Types C, D and E — Shall be as given in Table 2 read with Fig. 2.

4. Designation

An oiler of screw-in, angle type having nominal size $d_1 = M10 \times 1$ shall be designated as:

Oiler B M10 \times 1 IS : 5559

An oiler of drive-fit type having a drive-fit shank $d_1 = 5$ mm shall be designated as:

Oiler E 5 IS : 5559

5. Material — The body of the oilers shall be manufactured from steel conforming to property class 4.8 given in IS : 1367 (Part 3) - 1979 'Technical supply conditions for threaded steel fasteners : Part 3 Mechanical properties and test methods for bolts, screws and studs with full loadability (*second revision*)' or brass conforming to IS : 319-1974 'Specification for free cutting brass rods and sections (*third revision*)' or IS : 410-1967 'Specification for rolled brass plate, sheet strip and foil (*second revision*)'.

6. Workmanship and Finish

6.1 The oilers shall be finished smooth and shall be free from burrs, cracks and other manufacturing defects.

6.2 Oilers manufactured from steel shall be plated with zinc [see IS : 1573-1970 Specification for zinc plating (*first revision*)] or cadmium [see IS : 1572-1968 Specification for cadmium plating (*first revision*)].

7. Marking — To be marked with the nominal size and the manufacturer's name or trade-mark.

8. Packing — Shall be packed in accordance with the best prevalent trade practice or as specified by the purchaser.

9. Sampling — Unless otherwise agreed to between the purchaser and the supplier, the sampling plan as given in Appendix A shall be followed.

10. ISI Certification Marking — Details available with the Indian Standards Institution.

Adopted 29 May 1984

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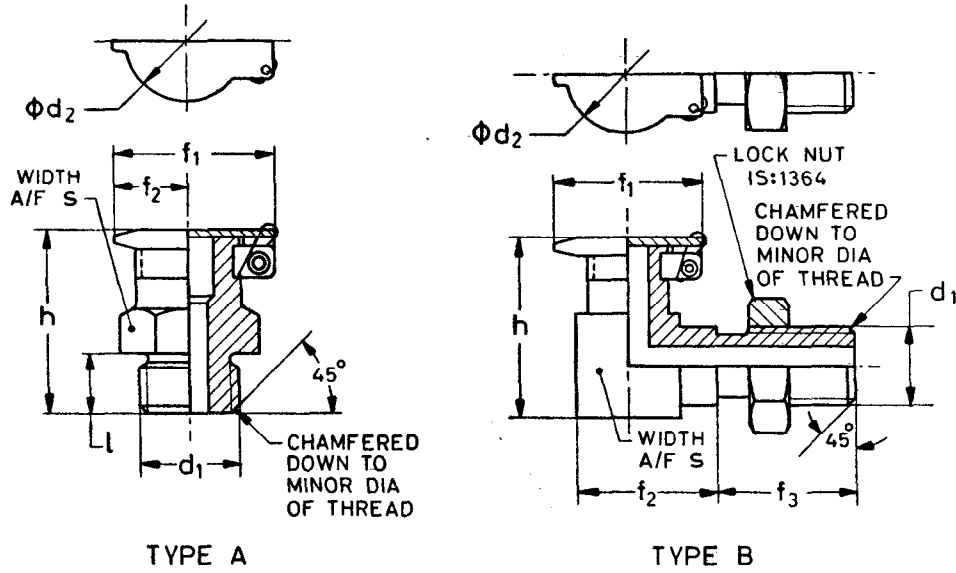


FIG. 1

TABLE 1 DIMENSIONS FOR OILERS, TYPE A AND B

(Clause 3.1 and Fig. 1)

All dimensions in millimetres.

Type	d_1	d_2 Approx	f_1 Approx	f_2 Approx	f_3 Approx	h Approx	l	Permissible Deviation on l	Width Across Flats	
									S	Permissible deviation
A	M5	9	12.5	4.5	—	15	4	0 -0.5	8	0 -0.09
	M6	9	12.5	4.5	—	15	5	0 -0.5	8	
	M8 × 1	12	16	7.5	—	18.5	5	0 -0.5	10	
	M 10 × 1	12	16	7.5	—	18.5	6	0 -0.5	12	
	M12 × 1.5	15	19	9	—	22	6	0 -0.5	14	
	M16 × 1.5	18	22.5	10.5	—	27.5	8	0 -0.5	17	
B	M6	9	12	11	13	15	—	—	8	0 -0.09
	M8 × 1	12	15	14	14	18	—	—	10	
	M10 × 1	12	18	16	14	20	—	—	12	
	M12 × 1.5	15	19	19	15	22	—	—	14	

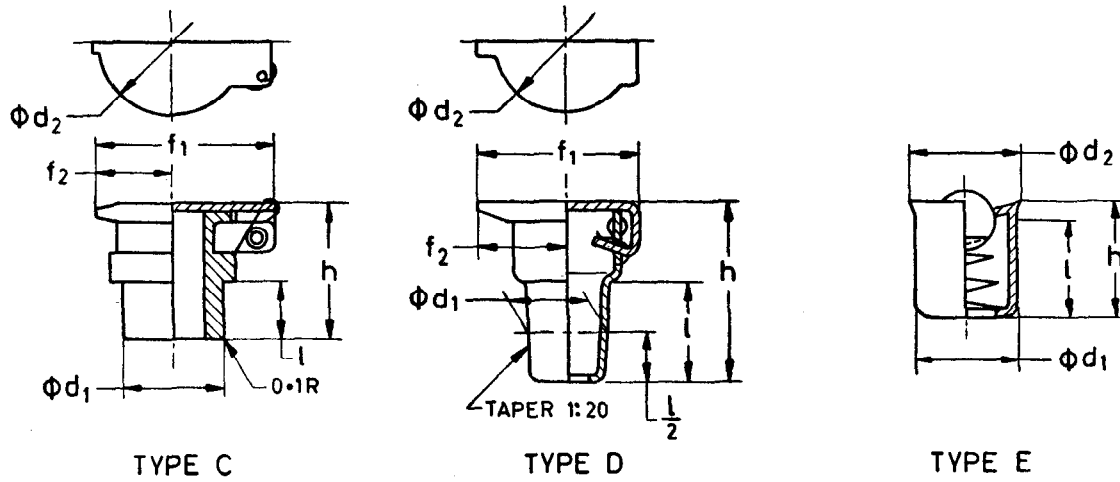


FIG. 2

TABLE 2 DIMENSIONS FOR OILERS, TYPES C, D AND E

(Clause 3.2 and Fig. 2)

All dimensions in millimetres.

Type	d_1^*	d_2 Approx	f_1 Approx	f_2 Approx	Approx	l	Size of Receiving Hole Size H11
C	5	12	12	5	12	5.8	5
	6	12	12	6	12	5.8	6
	8	14	15	6.5	13	5.8	8
	10	17	17.5	7.5	13.5	5.8	10
	12	20	19	8.5	14	6	12
	16	23	22.5	10.5	16	7	16
D	5	12	13	7	15	7	5
	6	12	13	7	16	8	6
	8	14	16	9	18	10	8
	10	17	18	10	19	11	10
	12	20	22	12	21	12	12
	16	23	25	14	23	13	16
E	4	4.5	—	—	5	3	4
	5	5.5	—	—	6	4	5
	6	6.5	—	—	7	5	6
	8	9	—	—	9	7	8
	9.5	10.5	—	—	11	9	9.5
	10	11	—	—	11.5	9.5	10
	11	12	—	—	12	10	11
	12.5	13.5	—	—	14	12	12.5
	14	15	—	—	16.5	14.5	14
16	17	—	—	18	15	16	

*The oilers shall be oversize on drive fit shank so that a satisfactory attachment is assured in a receiving hole with tolerance zone H₁₁ after pressing in.

If oilers with toleranced insert plug d , are required, this must be agreed in the order since it requires a special production process.

APPENDIX A

(Clause 9)

SCALE OF SAMPLING AND CRITERIA FOR CONFORMITY

A-1. Scale of Sampling

A-1.1 Lot — In any consignment all the oilers of the same size and type and manufactured from the same material under essentially similar conditions shall constitute a lot.

A-1.2 For ascertaining the conformity of the lot to the requirements of this specification tests shall be carried out for each lot separately. The number of oilers to be selected at random from each lot shall be as given below. To ensure the randomness of selection IS : 4905-1968 ' Methods of random sampling ' shall be followed.

<i>Lot Size</i>	<i>Sample Size</i>	<i>Permissible Number of Defectives</i>
(1)	(2)	(3)
Up to 100	8	0
101 „ 150	13	0
151 „ 300	20	0
301 „ 500	32	1
501 „ 1 000	50	2
1 001 „ 3 000	80	3
3 001 and above	125	5

A-2. Number of Tests and Criteria for Conformity

A-2.1 The oilers selected according to **A-1.2** shall be examined for dimensions and workmanship and finish. Any oiler failing to satisfy the requirements for any one or more of the characteristics shall be declared defective.

A-2.2 The lot shall be declared conforming to the requirements of this specification if the number of oilers found defective is less than or equal to the corresponding number given in **A-1.2**.

EXPLANATORY NOTE

This revision has been done to take into account the experience gained since 1970 when it was originally published. Sizes of receiving holes for Types C, D and E have also now been specified.

While preparing this standard considerable assistance has been derived from DIN 3410-1974 Oiler (Hampt — und Anschlu B ma Be) issued by Deutsches Institute für Normung (DIN).